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**SYSTEM AND METHOD  
OF DISHARMONIC FREQUENCY MULTIPLEXING**

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ABSTRACT OF THE DISCLOSURE

A multiplexing system and method for conveying simultaneously a multiplicity of digital communication channels over a single transmission medium. Multiplexing is effected by transforming the digital bitstream of each incoming channel to a digitally-represented sound bitstream and transmitting all of the digitally-represented sound bitstreams over the single medium. Digital bitstreams carried on each incoming channel entering the system which are in the form of binary "on" and "off" bits, are converted into a digital stream of corresponding sound bits. Each sound bitstream is rendered distinctive and non-interfering with other streams during simultaneous transmission over the common medium by having the digitally-represented sound bits of each bitstream derived from a unique prime number Hertz frequency. Expanded bandwidth is accomplished by grouping the sound bitstreams into a "chord" of disharmonic frequencies, and then transmitting the chord composed of several discordant sound bitstreams over the single transmission medium.